RESUME

Dr. SAHIB GUL AFRIDI
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EDUCATION

PhD Genetics (2011)*: Department of Genetics, Hazara University Mansehra, Pakistan*

MSc Chemistry (Biochemistry) (2001): *Institute of Chemical Sciences University of Peshawar, Pakistan*

BSc Bioscience (1997): *DJ Sindh Govt Degree Science College Karachi University Karachi, Pakistan*

FSc Pre Medical (1995): *Government Degree Science College Lyari, Karachi*

Metric Science (1993): *Government Higher Secondary School No. 1 Peshawar Cantt.*

PROFESSIONAL EXPERIENCE

1. Worked as Assistant Professor (IPFP) from August 3, 2011 to May 6, 2012 in the Department of Botany Abdul Wali Khan University Mardan (AWKUM).
2. Assistant Professor (BPS-19) from May 7, 2012 to June 12, 2012 in the Department of Biochemistry AWKUM.
3. Assistant Professor (TTS) from June 13, 2012 till date in the Department of Biochemistry AWKUM.

SUBJECTS STUDIED IN MASTER AND PHD

Pharmacology, Enzymology, Molecular Biology, Physiology and Nutrition, Molecular Genetics, Recombinant DNA technology, Advances in Cell Biology, Immunology, Comparative Biochemistry, Proteins and Polypeptides.

FIELD / SPECIALIZATION

Biochemistry, Molecular Biology, Plant Genetics, DNA fingerprinting.

RESEARCH SUPERVISED

1. Supervised 06 M.Phil Scholars at the Department of Biochemistry AWKUM.
2. Supervised 08 M.Sc. Research students at the Department of Botany AWKUM

2. Supervised 15 students for M.Sc. degree at the Department of Biochemistry AWKUM.
3. Supervised 02 students for M.Sc. degree and Co-supervised 10 MPhil scholars at the Department of Genetics Hazara University Mansehra

EXPERIENCE OF WORKING WITH

Plant Genetics and Breeding, Total genomic DNA isolation, Gel electrophoresis, Polymerase Chain Reaction, Protein analysis, Sodium Dodecyl Sulphate Gel Electrophoresis, Phylogenetic studies using Pop-gene and Statistical analyses, Molecular Epidemiology, Medical Biochemistry and Environmental Biochemistry.

TRAINING / WORKSHOPS ATTENDED

1. Presented paper in conference on "Computational Biology and Genomics" (27-29 September) organized by The Center for Human Genetics Hazara University Mansehra.
2. Presented Paper in "International Conference of Plant Sciences" Organized by Department of Botany, GC University, Lahore in on 22-24 September, 2014.
3. Attended one day International Symposium on Molecular Forensics: Emerging Trends. May 29, 2014. Organized by University of Health Sciences, Lahore.
4. Presented Paper in "International Conference of Agricultural Scientists" held in AJK University Rawlakot AJK in 2009.
5. Presented Paper in "International Conference of Plant Scientists" held at Faisalabad Agricultural University, Faiasalabad in 2008.
6. Attended 5 days workshop on "Use of DNA technology for Plant improvement" 2007, Hazara University, Mansehra, Pakistan.
7. Attended one week training course on plant taxonomy, 2007, Hazara University Mansehra, Pakistan.

PUBLICATIONS IN NATIONAL/INTERNATIONAL JOURNALS

1. Najeebullah Khan, Feroza Hamid Wattoo, Israr Ahmad, Ikram Muhammad, **Sahib Gul Afridi***, Muhamad Hamid Sarwar Wattoo and Mustafa Kamal Shah Safi, 2017. Assessment of Genetic Diversity and Phytochemical Analysis of Nigella sativa Genotypes from Pakistan. Asian Journal of Biological Sciences, 10: 56-63. DOI: 10.3923/ajbs.2017.56.63

2. Muneeba Aslam, Muhammad Shehroz, **Sahib Gul**, Mohibullah Shah, and Asifullah Khan. 2017. In-silico Identification of Drug-Like Compounds for Targeting HIV-IN and Human Host LEDGF/p75 Interaction. J Bioinform, Genomics, Proteomics 2(1): 1016.

3. Mahwish Zahoor, Muhammad Irshad, Hazir Rahman, Muhammad Qasim, **Sahib Gul Afridi,** Muhammad Qadir, Anwar Hussain. 2017. Alleviation of

heavy metal toxicity and phytostimulation of Brassica campestris L. by endophytic Mucor sp. MHR-7Original Research Article. *Ecotoxicol. Environ. Safety*. 142:139-149.

4. **Sahib Gul Afridi***, Habib Ahmad, Imtiaz Ahmed Khan and Mukhtar Alam. 2016. DNA based elaboration of tea genotypes cultivated in Pakistan. *Int. J. Biosci.*, 9 (6): 259-265.

5. **Sahib Gul Afridi***, Habib Ahmad, Ikram Muhammad, Maryam Mobeen, Rimsha Zainab. 2016. Molecular marker based identification of leaf rust resistance gene Lr25 in selected wheat accessions. *Int. J. Biosci.,* 9 (6): 266-270.

6. Uzma Salar, Muhammad Taha, Khalid Mohammed Khan, Nor Hadiani Ismail, Syahrul Imran, Shahnaz Perveen, **Sahib Gul,** Abdul Wadood. 2016. Syntheses of new 3-thiazolyl coumarin derivatives, *in vitro a*-glucosidase inhibitory activity, and molecular modeling studies. *Europ. J. Med. Chem.,* 122 (21): 196–204.

7. Ikram Muhammad, Inamullah, Habib Ahmad, Badshah Alam, Imtiaz Ahmed Khan, Israr Ahmad1, Ziaullah, Ayaz Ahmad, Najeebullah Khan, **Sahib Gul Afridi***. 2016. Marker assisted screening of wheat (*Triticum aestivum* L.) cultivars for drought tolerance and yield improvement. *Int. J. Biosci.,* 8 (3): 44-52.

8. **Sahib Gul Afridi*,** Shumaila Sultan, Zahid Ali Butt, Habib Ahmad. 2015. Ecological prevalence of the weed species growing in maize and sugarcane fields of district Mardan, Pakistan. *J. Bio. Env. Sci.* 7 (5): 1-7.

9. Ikram Muhammad, Inamullah, Habib Ahmad, Israr Ahmad, Badshah Alam, **Sahib Gul Afridi**. 2015. Physiological screening of Pakistani wheat germplasms using Relative water content (RWC) water loss rate (WLR) and water use efficiency (WUE). *Int. J. Scient. Engin. Res.* 6: Issue 1.

10. Sulaiman Shams, Huma Ajmal, Shehla Khan, **Sahib Gul Afridi**, Hammad Hassan, Zahida Parveen, M. Arif Lodhi and Abdul Wadood. 2014. Association of ABO Blood Groups with Blood Pressure among the Students of Abdul Wali Khan University Mardan. *J. Appl. Environ. Biol. Sci.,* 4(8S): 300-303.

11. Abdul Wadood, Muhammad Riaz, Amir ul Mulk, Momin Khan, Sobia Ahsan Haleem, Sulaiman Shams, **Sahib Gul Afridi**, Ayaz Ahmed, Muhammad Qasim, Farman Ali & Zaheer Ul-Haq. 2014. Design of New and Potent Diethyl Thiobarbiturates as Urease Inhibitors: A Computational Approach. *Bioinformation,* 10(5): 299-307.

12. Sulaiman Shams, Abdur-Rahman, Abdul Haq, Hammad Hassan, **Sahib Gul Afridi** and Abdul Wadood. 2014. Prevalence of Tuberculosis in District Khar

Bajaur Agency, Khyber Pakhtunkhwa Pakistan. *Biochem Anal Biochem*., 3:1http://dx.doi.org/10.4172/2161-1009.1000148.

13. Abdul Wadood, Lubna Shah, Muhammad Riaz, Ashfaq Ur Rehman, Nasir Ahmad, Amir Fahira, Muhammad Naeem, Momin Khan, **Sahib Gul**. 2014. Exploring Binding Modes of 5-Substituted 1h-Tetrazoles as Cyclooxygenase Inhibitors: A Molecular Docking Study. *J. Appl. Environ. Biol. Sci.* 4(9s): 113-122.

14. Abdul Wadood, Huma, Zahid ullah, Muhammad Riaz, Sulaiman Shams, Mehreen Gufran, Amir Fahira, Muhammad Naeem, **Sahib Gul** and Ayaz Ahmad. 2014. Structural Modeling and Molecular Dynamics Simulation Studies of Camel Milk Kappa Casein Protein. *Int. J. Comput. Bioinform. In Silico Modeling.* 3(5): 483-490.

15. Shams S, **S. G. Afridi,** A. Wadood, M. Iqbal, M. Munir, U. Shams, M. Khan, S. Yousaf. 2013. Frequency Distribution of Blood Groups ABO and RhD among the Students of Abdul Wali Khan University Mardan, Pakistan. www.scopemed.org/?mno=29220 [Access: November 09, 2013]. doi:10.5455/ijavms. 25-1354125896.

16. Sulaiman Shams, **Sahib Gul Afridi**, Abdul Nasir, Muhammad Junaid, Ashfaq-ur- Rahman, Muhammad Naeem, Najum Saqib, Abdul Wadood. 2013. Prevalence of Hepatitis C in Shahbaz Ghari, District Mardan, Pakistan. *J. Public Health Biologic. Sci*. 2(4): 293-297.

17. Abdul Wadood, Shandana Ali, Muhammad Riaz, Syed Babar Jamal, Taj Ur Rehman, **Sahib Gul**, Mukhtiar Hassan. 2013. Molecular Docking Study of 5-substituted-8-methyl-2H-pyrido [1, 2-a] pyrimidine-2, 4 (3H)–diones As Inhibitors of Basillus pasteurii urease. *Pakhtunkhwa J. Life Sci.* 1(03): 145-153.

18. **Afridi, S.G.,** H. Ahmad, M. Alam, I.A. Khan and M. Hassan. 2011. DNA landmarks for genetic diversity assessment in tea genotypes using RAPD markers. *Afr. J. Biotech.* 10(69): 15477-15482.

19. Shabnam, N., H. Ahmad, **S. G. Afridi,** S. Ghafoor and I.A. Khan. 2011. Development of Molecular Markers for Leaf Rust Resistance Genes Incorporated from Alien Species into Common Wheat. *Asian J. Agric. Sci.* 3(1): 55-57.

20. M. Qasim, H. Ahmad, S. Ghafoor, **S. G. Afridi**, I. Muhammad and A. K. Imtiaz. 2011. Estimation of Genetic Diversity in Sheep (Ovis aries) using Randomly Amplified Polymorphic DNA. *Intl. J. Anim. Vet. Adv.* 3(1): 6-9.

21. Khan, M. W., I. A. Khan, H. Ahmad, H. Ali, S. Ghafoor, M. Afzal, F. A. Khan, M. Shah and **S.G. Afridi.** 2010. Estimation of genetic diversity in Walnut. *Pak. J. Bot.* 42: 1791-1796.

22. Bibi, S., H. Ahmad, S. Ghafoor, K. Begum, **S.G. Afridi** and I. A. Khan. 2010. Genetic analysis of some commonly grown genotypes of maize in Pakistan using maize specific Simple Sequence Repeat (SSR) primers. *Curr. Res. J. Biol. Sci.* 2: 259-261.

23. Akbar, N., H. Ahmad, S. Ghafoor, K. Begum, **S.G. Afridi,** I. Muhammad and I. A. Khan. 2010. Estimation of Genetic Diversity in Capsicum Germplasm using Randomly Amplified Polymorphic DNA. *Asian J. Agri. Sci.* 2: 53-56.

24. Begum, K., H. Ahmad, S.U. Ghafoor, **S.G. Afridi**, I. Muhammad and I. A. Khan. 2010. Identification of Rapd Primers Linked to Leaf Rust Resistant Gene Lr51 Introgressed from Triticum speltoides to Common Wheat (*Triticum aestivum* L.). *Curr. Res. J. Biologic. Sci.* 2: 226-228.

25. Muhammad, I., H. Ahmad, S. Ghafoor, **S.G. Afridi**, K. Begum and I.A. Khan. 2010. Identification of RAPD primers specific for wheat homoeologous group 1 and 3 chromosomes. *Asian. J. Agri. Sci.* 2: 117-119.

26. Inamullah, I.A. Khan, H. Ahmad, S.U. Ghafoor, **S. G. Afridi**, I. Muhammad and M. Ilyas. 2010. Seed Storage Protein Profile of Rice Varieties Commonly Grown in Pakistan. *Asian J. Agric. Sci.* 2(4): 120-123.

27. **Gul, S.,** H. Ahmad, I.A. Khan and M. Alam. 2007. Assessment of genetic diversity in tea genotypes through RAPD primers. *Pak. J. Biologic. Sci.* 10: 2609-2611.

Publications in Conferences/Proceedings

1. **Sahib Gul Afridi**, Shaista Anjum, Sulaiman Shams, Hammad Hassan. 2017. Genetic Polymorphism in vaccine candidate genes of plasmodium falciparum. 2017. Conference on Computational Biology and Genomics. September 27-29. Centre of Human Genetics, Hazara University Mansehra.
2. Sumbal Salim, Kashif Gul, Memona Inam, Hina Hayat, **Sahib Gul,** Sulaiman Shams and Hammad Hassan. 2017. To investigate the possible association of cytokines gene polymorphism in the pathogenesis of Pre-eclampsia. Conference on Computational Biology and Genomics. September 27-29. Centre of Human Genetics, Hazara University Mansehra.

3. Muhammad Ayaz, Salman Khan, Haider Ali, Khan, **Sahib Gul Afridi** and Sulaiman Shams. 2017. Theurapetic potential of selenium treated stem cells for the reduction of liver fibrosis. Conference on Computational Biology and Genomics. September 27-29. Centre of Human Genetics, Hazara University Mansehra.
4. **Sahib Gul Afridi**, Fouzia Gul, Asifullah Khan, Hammad Hassan, Abdul Wadood. 2017. Genetic Polymorphism of Msp-1 and Msp-2 of *Plasmodium falciparum* Isolates from Malakand Division. First National Conference on "Emerging Trends in Bioinformatics & Biosciences" July 20-22. Department of Bioinformatics Hazara University Mansehra Pakistan.

5. Mehwish Nawaz, **Sahib Gul Afridi*,** Hammad Hassan, Sulaiman Shams. 2017. Prevalence and Risk factors of Hyperemesis Gravidarum in Khyber Pakhtunkhwa. "Emerging Trends in Bioinformatics & Biosciences" July 20-22. Department of Bioinformatics Hazara University Mansehra Pakistan.

6. Muhammad Irfan, Habib Ahmad, **Sahib Gul Afridi*,** Muhammad Ilyas. 2017. Molecular Characterisation of Apical Membrane Antigen 1 (Ama1) in *Plasmodium falciparum* Isolates from Hazara Division. "Emerging Trends in Bioinformatics & Biosciences" July 20-22. Department of Bioinformatics Hazara University Mansehra Pakistan.

7. **Afridi S.G.** Ahmad H. 2014. Phytochemical characterization of tea genotypes based on their main quality component analysis. International conference of plant sciences, 22-24 September, 2014. Department of Botany, GC University, Lahore.

8. Shumaila Sultan, Habib Ahmad, and **Sahib Gul Afridi*.** 2014. Ecological study of weed flora of maize and sugarcane fields of tehsil Takht bhai Mardan. International conference of plant sciences, 22-24 September, 2014. Department of Botany, GC University, Lahore.

9. Ahmad, Habib, **Afridi Sahib**. 2011. Tea Cultivars of Pakistan: Phylogenetic Affinities and Genetic Diversity Estimated through Numerical and Molecular Markers. Botany: Healing the Planet, St. Louis USA, Mon – July 9 -13.

10. **Afridi S. G.,** K. Begum, H. Ahmad, S. Ghafoor, I. Muhammad, I. A. Khan. 2009. Estimation of genetic diversity in world collection of tea Cameliasinensis).International conference of agricultural scientists Rawlakot, AJK University.

11. Begum K., I. Muhammad, H. Ahmad, S. Ghafoor, **S.G. Afridi**, I.A. Khan. 2009. Identification of DNA based markers for alien leaf rust resistant gene Lr 51 in hexaploid wheat. International conference of agricultural scientists, Rawlakot, AJK University.

12. Bibi, Y., I.A. Khan, H. Ahmad, S. Sakhi, I. Mohammad, **S.G. Afridi**, K. Begum. 2009. Analysis of total seed storage proteins in leguminous crops. International conference of agricultural scientists, Rawlakot, AJK University.

13. Muhammad I., K. Begum, H. Ahmad, S. Ghafoor, **S.G. Afridi**, I. A. Khan. 2009. Mappings of RAPD primers on wheat homoeologous chromosomes. International conference of agricultural scientists, Rawlakot, AJK University.

14. Sakhi, S., I. A. Khan, H. Ahmad, B. Yasmin, I. Mohammad, **S.G. Afridi**, K. Begum. 2009. DNA based analysis of some species of family leguminosae. International conference of agricultural scientists, Rawlakot, AJK University.

15. **Sahib Gul Afridi,** Habib Ahmad, Imtiaz Ahmad Khan, Sajid-ul-Ghafoor and MukhtarAlam. 2008. Estimation of genetic diversity in tea genotypes using DNA based markers. Abstract: International conference of Plant Scientists 2008" held at Agricultural University Faisal Abad.

16. Inamullah, Ikram Muhammad, Habib Ahmad, Imtiaz Ahmed Khan, Sajidul-Ghafoor and **Sahib Gul Afridi**. 2008. Seed storage protein profile of rice varieties commonly grown in Pakistan. Abstract: International conference of Plant Scientists 2008" held at Agricultural University Faisal Abad.

17. Sultan-uddin, IbrahimKhalilullah, Habib Ahmad, Imtiaz A. Khan, Sajid-Ul-Ghafoor, and **Sahib Gul Afridi**. 2008. Studies on genetic diversity in common Oak species using SDS-PAGE. Abstract: International conference of Plant Scientists 2008" held at Agricultural University Faisal Abad.

18. Ibrahim Khalilullah, Habib Ahmad, Imtiaz A. Khan, Sajid-Ul-Ghafoor, Sultan-uddin and **Sahib Gul Afridi**. 2008. Studies on Genetic Variability at Hmw-Gs Loci in Common Wheat Cultivars of Pakistan. Abstract: International conference of Plant Scientists 2008" held at Agricultural University Faisal Abad.

19. Ikram Muhammad, Habib Ahmad, Mohammad Nisar, Khaist Begum, Imtiaz Ahmed Khan, Sajid-ul-Ghafoor, **Sahib Gul Afridi**. 2008. Evaluation of Total Seed Storage Proteins of Chickpea using Sodium Dodecyl Sulphate Polyacrylamide Gel Electrophoreses. Abstract: International conference of Plant Scientists 2008" held at Agricultural University Faisal Abad.

20. Khaist Begum, Ibrahim Khalilullah, Habib Ahmad, Imtiaz A. Khan, Sajid-Ul-Ghafoor, **Sahib Gul Afridi**. 2008. RAPD Analysis of Some Local Bread Wheat Cultivars. Abstract: International conference of Plant Scientists 2008" held at Agricultural University Faisal Abad.

CURRENT RESEARCH PROJECTS:

Research project under NRPU Program 2016-2017 of HEC Pakistan Entitled as "Prevalence of plasmodium genotypes with emphasis on molecular characterization of *plasmodium falciparum* in KP Pakistan" (NRPU-3474) is in progress.

STATISTICAL SOFTWARE USED

MstatC
SPSS
Minitab
MVSP

COMPUTER KNOWLEDGE / SOFTWARE USED

- WINDOWS
- MS Word
- MS Graph
- MS Excel
- MS Power Point

LANGUAGES

Urdu
English
Pashto

REFERENCES

1. Prof. Dr. Habib Ahmad (TI), Tenured Professor, Chairman Department of Genetics Hazara University Mansehra, Pakistan.

   Email: drhahmad@gmail.com

2. Prof. Dr. Imtiaz Ahmad Khan, Foreign Faculty Professor Department of Genetics Karachi University Karachi, Pakistan.
   E mail: iakhan11@hotmail.com

3. Dr. Inamullah, Associate Professor (TTS) Department of Genetics Hazara University Mansehra, Pakistan

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